during real-time PCR. These are the DNA binding fluorophores, the 5' endonuclease, adjacent linear and hairpin oligoprobes and the self-fluorescing amplicons, which are described in detail. We also discuss factors that have restricted the development of multiplex real-time PCR as well as the role of real-time PCR in quantitating nucleic acids. Both amplification hardware and the fluorogenic detection chemistries have evolved rapidly as the understanding of real-time PCR has developed and this review aims to update the scientist on the current state of the art. We describe the background, advantages and limitations of real-time PCR and we review the literature as it applies to virus detection in the routine and research laboratory in order to focus on one of the many areas in which the application of real-time PCR has provided significant methodological benefits and improved patient outcomes. However, the technology discussed has been applied to other areas of microbiology as well as studies of gene expression and genetic disease.

L14 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:813016 CAPLUS
DOCUMENT NUMBER: 137:16098
TITLE: DNA genotyping
AUTHOR(S): Gold, Bert
CORPORATE SOURCE: Human Genetics Section Laboratory of Genomic Diversity, National Cancer Institute, Frederick, MD, USA
SOURCE: Advances in Clinical Chemistry (2001), 36, 171-234
CODEN: ACLCA9; ISSN: 0065-2423
PUBLISHER: Academic Press
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review on recent technol. developments in DNA genotyping, including the social and economic benefits, and costs of genetic testing. The lengthy review covers numerous classical techniques (such as SSCP, denaturing HPLC, gel electrophoresis, PCR, RFLP, and hybridization) used in genotyping, and also highlights some emerging technologies (such as mol. beacons, microarray, and TaqMan PCR). The review also looks at interpretation of the data to provide proper results to individuals undergoing the genetic testing. (c) 2001 Academic Press.
REFERENCE COUNT: 87 THERE ARE 87 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L1 4 SEA PLU=ON (REAL TIME PCR) (10A) AMPLIF?(5A) PRIOR

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                D IBIB AB
L2           61 SEA PLU=ON  BRCA1 AND (REAL TIME PCR)
L3           20 SEA PLU=ON  L2 AND (SEQUENC? OR SSCP)
L4           18 DUP REM L3 (2 DUPLICATES REMOVED)
                D IBIB AB 1-18
L5          732 SEA PLU=ON  ((REAL TIME PCR) OR TAQMAN OR LIGHT CYCLER OR
                (REAL TIME POLYMERASE)) AND (DISCOVER? OR SCREEN?) AND (MUTAT?
                OR POLYMORPH? OR SNP)
L6            1 SEA PLU=ON  L5 AND BRCA## AND PY<2003
                D IBIB AB
L7          139 SEA PLU=ON  L5 AND DISCOVER?
L8           31 SEA PLU=ON  L7 AND PY<2003
L9           18 DUP REM L8 (13 DUPLICATES REMOVED)
                D IBIB AB 1-18

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L10           8 SEA PLU=ON  ((REAL TIME PCR) OR TAQMAN OR LIGHT CYCLER OR
                (REAL TIME POLYMERASE)) AND (CONFIRM?(4A) AMPLIF?(4A) PRODUCT)
L11           6 SEA PLU=ON  L10 AND PY<2003
L12           4 DUP REM L11 (2 DUPLICATES REMOVED)
                D IBIB AB 1-4
L13          14 SEA PLU=ON  ((REAL TIME PCR) OR TAQMAN OR LIGHT CYCLER OR
                (REAL TIME POLYMERASE))(10A) (BENEFIT?)
L14           8 DUP REM L13 (6 DUPLICATES REMOVED)
                D TI 1-8
                D IBIB AB 7 8

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      added to MEDLINE, along with 2007 Medical Subject Headings (MeSH(R))
      and 2007 tree numbers.

      The annual reload will be available in early 2007.

      This file contains CAS Registry Numbers for easy and accurate
      substance identification.

    FILE BIOSIS
    FILE COVERS 1969 TO DATE.
    CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
    FROM JANUARY 1969 TO DATE.

    RECORDS LAST ADDED: 27 December 2006 (20061227/ED)


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